

ABSTRACT

~~A phosphor element (10) of the present invention includes a pair of~~
electrodes (2, 6) facing each other, and a phosphor layer (4) interposed
between the pair of electrodes and including a semi-conductive phosphor fine
particle (7) in which at least a part of the surface is covered with a conductive
organic material (8). The conductive organic material is preferably chemically
adsorbed on the surface of the semi-conductive phosphor fine article. Further,
it is preferable that electron transport layers (3, 5) be further provided between
the phosphor layer and at least one of the electrodes.